CARDOM

Battle proven autonomous recoiling mortar system

- 120/81 mm Recoil Mortar System
- Autonomous operation
- Suitable for various tracked or wheeled platforms
- Fully automatic laying system with manual back-up
- Embedded with an Inertial Navigation System (INS) to support maximum accuracy
- Mortar Fire Control System (FCS), including on-board ballistic calculations, easy interface to Command & Control / C^4I Systems. Can be delivered with a comprehensive fire solution including BMS, Fire Direction Center (FDC) & Forward Observer.
- Rapid deployment and short response time - less than 1 minute to fire 1st round
- Massive and accurate fire power - up to 16 rounds per minute
- Easy and safe to operate
- Low life-cycle cost
- Hundreds of CARDOM mortars in operational use by the US Army

Elbit Systems™ Land

CARDOM

Battle proven autonomous recoiling mortar system

The CARDOM is an autonomous, computerized 120 mm recoiling mortar system suitable for a variety of tracked and wheeled armored carriers. The CARDOM provides accurate, effective and immediate fire support for rapid deployment units and special forces, as well as for infantry and artillery units. The CARDOM is a NATO qualified, battle-proven mortar system, in active service in modern armies such as the US Army within the Stryker 8x8 brigades, the Israel Defense Forces and other leading armies. The CARDOM's unique design enables ground operation of its 120 mm barrel and accommodation of an 81 mm barrel to reduce training costs and decrease collateral damage (when used in urban area and firing on sensitive targets). The CARDOM's advanced embedded Fire Control System (FCS) combines an Inertial Navigation System (INS), electrical drives for automatic laying, and an on-board ballistic computer. It is easily integrated with an in-service Battle Management System (BMS). Together, these provide a direct digital link to modern forward observer (FO) target acquisition sensors including UAS, Radars and other detection systems. With its light weight and low silhouette, the CARDOM enables the vehicle to maintain transporability without compromising the enhanced and additional armor needed for up-to-date airborne expeditionary missions. The CARDOM includes a modern and battle-proven shoot-and-scoot capability allowing "first round on target" within 30-60 seconds and massive firepower with a rate of fire of up to 16 rounds per minute. Significant "fire for effect" missions can be completed by a single mortar. Elbit Systems offers a complete "sensor to shooter to target" solution tailored to meet any customer requirements for a complete solution for all levels - battery, battalion or brigade. It includes complete vehicle adaptation and integration, ammunition, scalable Command & Control capabilities and varied target acquisition platforms (ground and aerial) all digitally connected by communication systems. These components are all connected via digital command, control and communication systems.

Technical Specifications

General	
Range	7000 meter
Caliber	81/120 mm smoothbore
Max. Rate of Fire	16 rounds per minute
Ammunition	81 mm,120 mm Standard ammunition (NATO or other)
Weight	1150kg
Fire azimuth	360° (+/-210 degrees)
Shoot of First Round	30-60 seconds
Scoot from Firing	Immediate
Dual Mode	Mounted & dismounted
MRSI	Available
Crew	2 to 4, carrier dependent
Barrel length	162 0mm
Sustained firing rate	4 rounds per minute
Recoil length	220 mm
Max Recoil force	36 ton with STD ammo
Elevation	45-85° firing

Elbit Systems™ Land

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